## METHOD FOR DETERMINING SPIN CHARACTERISTIC PARAMETERS IN SPUN OPTICAL FIBERS

\* \* \* \* \*

## ABSTRACT

5 A method (600) of determining characteristic spin parameters (T,Ti) of a spun optical fiber (105), comprising: performing (610,615) optical time-domain reflectometry measurements on the fiber, so as to obtain a State Of Polarization (SOP) spatial function from a backscattered 10 electromagnetic field, the SOP spatial function being defined by a plurality of components; and processing the SOP spatial function (625-650). The processing comprises: calculating a further spatial function related to the spatial first derivative of at least one of said components 15 of the SOP spatial function; identifying a periodicity of said further spatial function; determining said characteristic spin parameters as a function of said spatial periodicity (630-650).

(Figure 4)

20